



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Group Art Unit:

3641

GERALD BERGER ET AL.

Examiner:

Unknown

Serial No.:

10/723,709

Filed:

November 26, 2003

For:

PROCESS FOR TAGGING OF **MANUFACTURED**

ARTICLES WITH UP-AND DOWN-CONVERTING METAL OXIDE NANOPHOSPHORS AND ARTICLES PRODUCED

THEREBY

Attorney Docket No.: NANO 0101 PUS

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents U.S. Patent & Trademark Office P.O. Box 1450 --- Alexandria, VA 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and § 1.97-1.98, the references listed and identified on the attached Forms PTO/SB08A and/or SB08B are being submitted herewith for consideration by the Examiner. Please note that Cite No. Z was not available at the time this Information Disclosure Statement was submitted. It will be forwarded when it is received in our office.

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

I hereby certify that this paper, including all enclosures referred to herein, is being deposited with the United States Postal Service as first-class mail, postage pre-paid, in an envelope addressed to: Commissioner for Patents, U.S. Patent & Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 on:

Date of Deposit

William G. Conger Name of Person Signing

Signature

S/N 10/723,709 Atty. Docket: NANO 0101 PUS

While this Statement is being filed in compliance with the duty of disclosure, citation of the attached references is not to be construed as an admission that any of the reference(s) are "material" as defined under 37 C.F.R. § 1.56(b).

If the filing date of this application is on or before June 30, 2003, a copy of each reference listed on the attached Forms PTO/SB08A and/or SB08B is included herewith. If this application was filed after June 30, 2003, copies of any cited U.S. patent/application references have not been included. Consideration and entry into the record of these references is respectfully requested.

Respectfully submitted,

GERALD BERGER ET AL.

William G. Conger

Reg. No. 31,209

Attorney/Agent for Applicant

Date: May 4, 2004

BROOKS KUSHMAN P.C.

1000 Town Center, 22nd Floor Southfield, MI 48075-1238

Phone: 248-358-4400 Fax: 248-358-3351

PTO/SB/08A (10-96) [MODIFIED]
Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

æ.	Substitute for Form 1449A/PTO				Complete if Known		
A Diver	and stitute for Form 1449A/PTO				Application Number	10/723,709	
					Filing Date	November 26, 2003	
	STATEMENT BY APPLICANT			PLICANI	First Named Inventor	GERALD BERGER ET AL.	
			•		Group Art Unit	3641	
	(use as many sheets as necessary)			cessary)	Examiner Name	Unknown	
	Sheet	1	of	3	Attorney Docket Number	NANO 0101 PUS	

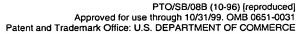
	U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.1	U.S. PATENT D	OCUMENT Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
	Α	5,418,298		Laine et al.	5-23-1995		
	В	5,614,596		Laine et al.	3-25-1997		
	С	5,958,361		Laine et al.	9-28-1999		
		-					
<u> </u>							
		···				***************************************	

FOREIGN PATENT DOCUMENTS								
Examiner Initials	Cite No.1	Offic	Foreign Patent Docur	ment Kind Code ^s (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
	D	WO	03/070640 A1		TAL Materials	08-28-2003		
	E	WO	00/38282 A3		Univ. of Michigan	06-29-2000		
					-			

Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.



JUN 0 1 2004 2

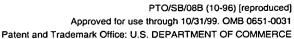
Substitute for Form 1449B/PTO Complete if Known 10/723,709 **Application Number INFORMATION DISCLOSURE** November 26, 2003 Filing Date STATEMENT BY APPLICANT GERALD BERGER ET AL. **First Named Inventor** 3641 Group Art Unit (use as many sheets as necessary) Unknown Examiner Name NANO 0101 PUS Sheet Attorney Docket Number

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the Examiner item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), Τ² Initials Cite No.1 publisher, city and/or country where published. G.D. Ulrich, "Flame Synthesis of Fine Particulates," CHEM. & F ENG. NEWS, 8-6-84, 22-9 S. Vermury et al., "Electrically Controlled Flame Synthesis G of Nanophase TiO_2 , SiO_2 and SnO_2 ," J. MATER. RES. 12, 1031-41 (1997)G.P. Fotou et al., COMBUSTION AND FLAME, 101, 529-38 (1995) Н S-L Chung et al., J. Am. CERAM. Soc. 75, 117-23 (1992) I M. Sokolowski et al., J. AEROSOL Scr., 8, 219-30 (1977) J C-H. Hung et al., J. MATER. RES. 7, 1861-70 (1992) ĸ C-H. Hung et al., J. MATER. RES. 8, 2404-13 (1993) L A.J. Rulison et al., J. MATER. RES. Vol. 11, No. 12, 3083-89 M (1996)A. Gurav et al., AEROSOL Sci. Tech. 19, 411-52 (1993) N K.A. Kusters et al., Powder Tech. 82, 79-91 (1995) 0 C.R. Bickmore et al., EUROP. CERAM. Soc. 18, 287-97 (1998) Р R.M. Laine et al., "Making Nanosized Oxide Powders from Precursors by Flame Spray Pyrolysis, " KEY ENGINEERING Q MATERIALS, Vols. 159-160, Trans. Tech Publ. Ltd., Switzerland, 1998, pp. 17-24

Examiner	Da	Date	
Signature	c	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.



JUN 0 1 2004 3

Complete if Known Ar Equiposititute for Form 1449B/PTO 10/723,709 **Application Number** INFORMATION DISCLOSURE STATEMENT BY APPLICANT November 26, 2003 **Filing Date First Named Inventor** GERALD BERGER ET AL. 3641 Group Art Unit (use as many sheets as necessary) Unknown **Examiner Name** Sheet of 3 NANO 0101 PUS 3 Attorney Docket Number OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the Examiner item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), T 2 Initials ' Cite No.1 publisher, city and/or country where published. A.C. Sutorik et al., "Synthesis of Ultrafine □-Alumina Powders via Flame Spray Pyrolysis of Polymeric Precursors," R J. Am. CERAM. Soc. 81, 1477-86 (1998) C.R. Bickmore et al., "Ultrafine Spinel Powders by Flame Spray Pyrolysis of a Magnesium Aluminum Double Alkoxide," S J. Am. CERAM. Soc. 79, 1419-23 (1996) R.M. Laine et al., J. CHEM. MATER. 6, 1441-3 (1996) т K. Waldner et al., CHEM. MATER. 8, 2850-7 (1996) U Yu Jun Li et al., "Novel Blood-Compatible Polyurethanes Containing Poly(butadiene) Soft Segments and ν Phosphatidylcholine Analogues for Biomedical Applications," CHEM. MATER., 1996, 8, 1441-1450 C.R. Bickmore et al., "Ultrafine Titania by Flame Spray Pyrolysis of a Titanatrane Complex," J. of European Cer. Soc., W 287-297 T. Hinklin et al., "Liquid-Feed Spray Pyrolytic Synthesis х of Nanoalumina Powders," CHEM. MATER. In press: J. Marchal et al., "Yttrium Aluminum Garnet Y Nanopowders by Flame Spray Pyrolysis, " CHEM. MATER. In press: S. Li et al., "Synthesis and Characterization of Y2O2S: Yb3+, Er3, Up-Conveting [sic] Nanosphores," NANOSCIENCE AND NANO-TECHNOLOGY IN PERSPECTIVE, Tsignhua Press, June, 2002, pp. 221-33

	 ·	,
Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.